## IN THE CLAIMS

Please amend the claims as follows:

Please cancel Claims 1-6.

- 7. (original) A computer program product residing in a computer storage medium for performing power routing on a voltage island within an integrated circuit chip, said computer program product comprising:
- program code means for generating a first robust power grid for a voltage island on metal levels 1 to N-1;
- program code means for generating a second robust power grid for said voltage island on metal levels N and above;
- program code means for determining a bounding region of said second robust power grid; and
- program code means for routing a plurality of shortest distance connections from a plurality of power sources to said second robust power grid.
- 8. (original) The computer program product of Claim 7, wherein said second robust power grid is a power segment.
- 9. (original) The computer program product of Claim 7, wherein a number of power segments to be generated on said metal level N and above is determined by determining the product of a number of said power sources and a number of connections to be made per power source.

Amendment under 37 C.F.R. § 1.111

Page 2

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1	10. (Original) The computer program product or claim ", wherein said computer program
2	product further includes program code means for determining a bounding region of said second
3	robust power grid.
1	11. (original) The computer program product of Claim 7, wherein said program code means
2	for generating a second robust power grid further includes:
٠	program code means for obtaining a count of power source shapes of an identical
3	• -
4	voltage polarity on a chip;
_	program code means for identifying a chip position at which said voltage island
5	^
6	is located;
7	program code means for determining and generating a bounding region on top of
8	said voltage island on which said routing is to be performed; and
•	Said votings island on which said forming is to be personate, and
9	program code means for generating power grids within said bounding region.
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1	12. (original) The computer program product of Claim 7, wherein said program code means
z	for routing further includes:
3	program code means for obtaining a plurality of source points to form an group_A;
4	program code means for dividing said group_A based on connection per source
5	information;
6	program code means for obtaining target power shapes for said second robust
7	power grid on metal level N and above to build a group_B; and

for a given middle shape s in said group\_A, program code means for performing 8 ShapeRouting to route from s to a shape t in said group\_B. 9 (original) A computer system for performing power routing on a voltage island within an 13. 1 integrated circuit chip, said computer system comprising: 2 means for generating a first robust power grid for a voltage island on metal levels 3 1 to N-1; means for generating a second robust power grid for said voltage island on metal 5 levels N and above; means for determining a bounding region of said second robust power grid; and 7 means for routing a plurality of shortest distance connections from a plurality of 8 power sources to said second robust power grid. (original) The computer system of Claim 13, wherein said second robust power grid is a 14. 1 power segment. 2 (original) The computer system of Claim 13, wherein a number of power segments to be 15. 1 generated on said metal level N and above is determined by determining the product of a number 2 of said power sources and a number of connections to be made per power source. 3 (original) The computer system of Claim 13, wherein said computer system further 16. 1 includes means for determining a bounding region of said second robust power grid. 2 (original) The computer system of Claim 13, wherein said means for generating a first 17. 1

2

robust power grid further includes:

3	means for obtaining a count of power source shapes of an identical voltage polarity
4	on a chip;
5	means for identifying a chip position at which said voltage island is located;
6	means for determining and generating a bounding region on top of said voltage
7	island on which said routing is to be performed; and
8	means for generating power grids within said bounding region.
1	18. (original) The computer system of Claim 13, wherein said means for routing further
2	includes:
3	means for obtaining a plurality of source points to form an group_A;
4	means for dividing said group_A based on connection per source information;
5	means for obtaining target power shapes for said second robust power grid on
6	metal level N and above to build a group_B; and
7	for a given middle shape s in said group A, means for performing shaperouting
8	to route from $s$ to a shape $t$ in said group_B.
	Please cancel Claims 19-21.